

Appendix Table 1-6

Fall 2009 students in grade 9 who were proficient in specific algebraic knowledge and skills in fall 2009 and spring 2012, and the change in percentage proficient, by student characteristics between fall 2009 and spring 2012

(Percent)

	Level 1			Level 2			Level 3			Level 4			Level 5			Level 6	Level 7
Student characteristic	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Spring 2012	Spring 2012
All students	85.7	92.4	6.7	58.8	74.7	15.9	40.9	63.9	23.0	18.0	28.6	10.6	9.1	19.0	10.0	5.3	2.3
Sex																	
Male	84.3	91.7	7.4	58.4	74.3	16.0	41.0	63.5	22.5	18.4	29.1	10.7	9.3	19.9	10.6	5.9	2.6
Female	87.0	93.0	6.1	59.3	75.1	15.8	40.9	64.2	23.4	17.7	28.2	10.5	8.8	18.1	9.3	4.7	2.0
Race or ethnicity																	
White	89.7	94.0	4.4	65.6	79.5	13.9	47.3	70.0	22.7	21.2	34.1	12.9	10.1	22.9	12.8	6.2	2.7
Black	73.9	87.2	13.3	40.7	61.5	20.8	24.9	47.9	23.0	10.0	14.8	4.7	6.2	8.3	2.1	2.3	0.9
Hispanic ^a	82.8	90.9	8.2	52.2	69.8	17.6	33.2	57.1	23.9	13.2	21.4	8.1	7.2	13.4	6.2	3.4	1.4
Asian	94.4	97.8	3.4	80.0	90.4	10.4	66.1	84.6	18.5	38.1	54.8	16.7	18.6	44.6	25.9	16.6	7.6
Other	84.3	92.4	8.1	56.1	73.6	17.6	38.1	62.0	23.9	15.9	26.5	10.6	8.3	17.5	9.2	4.8	2.1
Parents' highest education																	
Less than high school	75.0	86.8	11.8	42.7	61.1	18.4	24.4	46.6	22.3	8.9	14.0	5.1	5.8	8.6	2.7	2.6	1.0
High school diploma or GED	80.7	89.8	9.2	49.7	67.8	18.1	31.8	55.2	23.4	12.7	19.7	7.0	7.0	11.8	4.8	3.1	1.2
Associate's degree	86.3	92.4	6.1	56.2	73.7	17.5	37.0	61.8	24.8	15.1	24.4	9.3	7.9	14.9	7.0	3.8	1.5
Bachelor's degree	91.9	95.9	4.0	71.0	84.1	13.2	52.9	75.8	22.9	24.2	39.5	15.3	11.1	27.0	15.9	7.1	3.1



	Level 1			Level 2			Level 3			Level 4			Level 5			Level 6	Level 7
Student characteristic	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Fall 2009	Spring 2012	Change	Spring 2012	Spring 2012
Master's degree or higher	94.8	96.9	2.1	77.2	87.8	10.7	61.1	81.2	20.0	31.2	49.4	18.2	14.6	37.1	22.5	11.7	5.3
Socioeconomic status																	
Lowest fifth	75.3	86.3	11.0	43.1	61.2	18.1	25.8	47.5	21.7	9.9	15.0	5.1	6.1	9.0	2.9	2.6	1.0
Middle three-fifths	85.8	92.6	6.8	57.4	74.3	16.9	38.6	62.9	24.2	16.2	25.8	9.6	8.2	16.1	7.8	4.2	1.7
Highest fifth	95.1	97.5	2.3	78.2	89.1	10.9	62.2	82.7	20.5	31.2	50.3	19.1	14.2	37.3	23.1	11.1	5.0
School sector																	
Public	85.0	92.0	7.0	57.6	73.5	16.0	39.7	62.4	22.7	17.3	27.2	9.8	8.8	17.9	9.0	5.0	2.2
Private	94.3	97.7	3.4	75.0	90.0	15.0	57.2	83.5	26.3	26.5	47.5	21.0	11.8	33.5	21.8	8.7	3.7

GED = General Educational Development.

^a Hispanic may be any race. Asian, black or African American, white, and other races refer to individuals who are not of Hispanic origin.

NOTES: Levels 6 and 7 were not available for the 2009 sample. The proficiency levels represent the following: Level 1—algebraic expressions; Level 2—multiplicative and proportional thinking; Level 3—algebraic equivalents; Level 4—systems of equations; Level 5—linear functions; Level 6—quadratic functions; Level 7—log and exponential functions (geometric sequences).

SOURCES: Ingels SJ, Dalton B, Holder TE, Lauff E, Burns LJ, *High School Longitudinal Study of 2009 (HSLS:09): A First Look at Fall 2009 Ninth-Graders*, NCES 2011-327 (2011); Ingels SJ, Dalton B, *High School Longitudinal Study of 2009 (HSLS:09) First Follow-up: A First Look at Fall 2009 Ninth-Graders in 2012*, NCES 2014-360 (2013).
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